CLAIMS

1. A compound of formula (I) or a pharmaceutically acceptable salt or solvate thereof:

(I)

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in which:

 R^1 , R^2 and R^3 are independently hydrogen, halogen, cyano, CF_3 , OCF_3 , OC_{1-6} alkyl or C_{1-6} alkyl;

R⁴ is halogen, CO₂R¹²,

C₁₋₆ alkoxy where the alkyl group may form a 3-6 membered saturated ring or may be substituted with 1-3 fluorine atoms or a cyano group;

C₃₋₆ alkenyloxy or C₃₋₆ alkynyloxy where either may be optionally substituted with hydroxy or NR¹⁴R¹⁵;

OC1-6 alkyl-X-C1-6 alkyl where the alkyl groups may form a 3-6 membered saturated ring;

 OC_{1-6} alkyl R^{11} , or OC_{2-6} alkyl-X- R^{11} where the alkyl group may form a 3-6 membered saturated ring and is optionally substituted with 1-3 groups selected from hydroxy, halogen, $NR^{14}R^{15}$, SR^{13} , $S(O)_2R^{13}$, $S(O)R^{13}$ or COR^{13} ;

OC₁₋₆ alkylR¹⁶;

 R^5 and R^6 are independently hydrogen, cyano, halogen, CO_2R^{12} , $CONR^{14}R^{15}$;

C₁₋₆ alkyl optionally substituted by hydroxy, NR¹⁴R¹⁵, or 1-3 fluorines;

C₁₋₆ alkylR¹¹ or XCH(R¹¹)C₁₋₆ alkyl or XCH(R¹⁶)C₁₋₆ alkyl where the alkyl group may be optionally substituted with 1-3 groups selected from hydroxy, and NR¹⁴R¹⁵;

NR¹⁴R¹⁵; N(R¹¹)R¹¹; X-(CH₂)qNR¹⁴R¹⁵; (CH₂)nNR¹⁴R¹⁵; NHC(O)C₁₋₆ alkyl optionally substituted by one or more hydroxy groups,

 C_{3-6} alkynyl or C_{3-6} alkenyl optionally branched and optionally substituted with 1-3 groups selected from hydroxy, cyano, halogen and =0;

R¹¹; X-R¹¹; X-R¹²; X-C₁₋₆alkylR¹⁶; X-R¹⁶; X-(CH₂)nCO₂R¹²; X-(CH₂)nCONR¹⁴R¹⁵; X-(CH₂)nR¹¹; X-(CH₂)nCN; X-(CH₂)qOR¹²; (CH₂)nOR¹²; (CH₂)n-X-R¹¹; X-(CH₂)qNHC(O)NHR¹²; X-(CH₂)qNHC(O)R¹²; X-(CH₂)qNHS(O)₂R¹²; X-(CH₂)qNHS(O)₂R¹¹; X-C₃₋₆alkenyl; X-C₃₋₆alkynyl;

n is 1,2,3,4 or 5;

q is 2, 3, 4, 5 or 6;

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 $X \text{ is } NR^{13}, O, S, S(O), S(O)_2;$

R¹¹ is an aryl group or a 5-7 membered heteraromatic ring containing 1-4 heteroatoms selected from nitrogen, oxygen or sulphur each of which can be optionally substituted by 1-3 groups selected from halogen, C(O)NR¹⁴R¹⁵, C(O)OR¹², hydroxy, =O, =S, CN, NO₂, COR¹³, NR¹⁴R¹⁵, X(CH₂)qNR¹⁴R¹⁵, (CH₂)nNR¹⁴R¹⁵, (CH₂)nOH, SR¹³, S(O)R¹³, S(O)₂R¹³ C₁₋₆ alkyl-X-C₁₋₆ alkyl, C₁₋₆ alkyl or C₁₋₆ alkoxy where the alkyl group may form a 3-6 membered ring or is optionally substituted with 1-3 groups selected from hydroxy, halogen, NR¹⁴R¹⁵, SR¹³, S(O)R¹³, S(O)₂R¹³;

 R^{12} and R^{13} are independently hydrogen or C_{1-6} alkyl where the alkyl group may be substituted with 1-3 fluorine atoms or may form a saturated 3-6 membered ring;

R¹⁴ and R¹⁵ are independently hydrogen, C₁₋₆ alkyl, C₃₋₆ cycloalkyl or (CH₂)qOH,

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or R^{14} and R^{15} together with the nitrogen atom to which they are attached form a 4-8 membered saturated ring containing 1-3 heteroatoms selected from nitrogen, oxygen and sulphur and optionally substituted by C_{1-6} alkyl, C_{1-6} alkyl-OH, or hydroxy; and

R¹⁶ is a 4-8 membered saturated ring containing 1-3 heteroatoms selected from nitrogen, oxygen or sulphur and optionally substituted with 1-3 groups selected from hydroxy, cyano, halogen and =0,

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- when R⁴ is halogen or C₁₋₄alkoxy and R⁵ is hydrogen, halogen, C₁₋₄alkyl, C₁₋₂alkoxy, C₁₋₂alkylthio, trifluoromethyl or ethynyl and when one of R¹, R² or R³ is C₁₋₆alkyl or C₁₋₆alkoxy and is meta to the sulphonamide group then the group ortho to both the sulphonamide group and the C₁₋₆alkyl or C₁₋₆alkoxy group is not hydrogen,
- when R⁴ is halogen or C₁₋₄alkoxy and R⁵ is hydrogen, halogen, C₁₋₄alkyl,
 C₁₋₂alkoxy, C₁₋₂alkylthio, trifluoromethyl or ethynyl and when one of R¹, R² or R³
 is C₁₋₆alkyl or C₁₋₆alkoxy and is ortho to the sulphonamide group then the group
 ortho to the C₁₋₆Alkyl or C₁₋₆alkoxy and also meta to the sulphonamide group is not
 hydrogen,
- when two of R¹, R², R³ are hydrogen and the other is a methyl group para to the sulphonamide and R⁴ is methoxy then R⁵ is not hydrogen or bromo, and
- when R⁵ is methyl and R⁶ is methoxy and one of R¹, R² or R³ is brome or iodo and the other two are both hydrogen, then the brome or iodo group is not ortho to the sulphonamide group..
- 2. A compound according to claim 1 in which one of R¹, R² and R³ is hydrogen and the other is chloro, bromo or methyl.
- 3. A compound according to claim 1 or 2 in which R⁴ is C₁₋₆ alkoxy such as methoxy, 2-furanylmethoxy, bromo, chloro, 2-methoxyethoxy, (5-methyl-3-isoxazolyl)methoxy, pyridylmethoxy, 3-pyridazinylmethoxy, methoxy, 2-(1-imidazolyl)ethoxy, (2-methyl-4-oxazolyl)methoxy and 4-methoxyphenylmethoxy.
- 4. A compound according to any one of claims 1 to 3 in which R⁵ is hydrogen, halogen such as bromo and chloro, phenyl,-C₁₋₆ alkyl such as methyl, CH₂OH, cyano and

2-aminothanethiol

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- 5. A compound according to any one of claims 1 to 3 in which R^6 is hydrogen, C_{1-6} alkyl, CH_2OH and halogen.
- 6. A compound according to claim 1 in which is:
- 2,3-Dichloro-N-(3-methoxy-5-methyl-2-pyrazinyl)-benzenesulphonamide
- N-(6-Chloro-3-methoxy-2-pyrazinyl)-2,3,4-tifluorobenzenesulphonamide
- 3-Chloro-N-(6-chloro-3-methoxy-2-pyrazinyl)-2-methylbenzenesulphonamide
- 2,3-Dichloro-N-(6-chloro-3-methoxy-2-pyrazinyl)benzenesulphonamide
 - 2.3-Dichloro-N-(5-chloro-3-methoxy-2-pyrazinyl)benzenesulphonamide
 - N-(5-Bromo-3-methoxy-2-pyrazinyl)-2,5-dichlorobenzenesulphonamide
 - N-(5-Bromo-3-methoxy-2-pyrazinyl)-3,5-dichlorobenzenesulphonamide
 - N-(5-Bromo-3-methoxy-2-pyrazinyl)-2,3-dichlorobenzenesulphonamide
- N-(5-Bromo-3-methoxy-2-pyrazinyl)-2,4-dichlorobenzenesulphonamide
 - N-(5-Bromo-3-methoxy-2-pyrazinyl)-3,4-dichlorobenzenesulphonamide
 - N-(5-Bromo-3-methoxy-2-pyrazinyl)-4-chlorobenzenesulphonamide
 - N-(5-Bromo-3-methoxy-2-pyrazinyl)-3-chlorobenzenesulphonamide
 - N-(3-Methoxy-5-methyl-2-pyrazinyl)-2-fluorobenzenesulphonamide
- 20 N-(3-Methoxy-5-methyl-2-pyrazinyl)benzenesulphonamide
 - N-(3-Methoxy-5-methyl-2-pyrazinyl)-2-iodobenzenesulphonamide
 - N-(3-Methoxy-5-methyl-2-pyrazinyl)-3-fluorobenzenesulphonamide
 - 2-[[(3-Methoxy-5-methyl-2-pyrazinyl)amino]sulphonyl]benzonitrile
 - N-(5-Bromo-3-methoxy-2-pyrazinyl)benzenesulphonamide
- 25 N-(5-Bromo-3-methoxy-2-pyrazinyl)2-iodobenzenesulphonamide
 - 2.3-Dichloro-N-[3-(2-furanylmethoxy)-5-methyl-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-methyl-3-(5-methyl-3-isoxazolylmethoxy)-2-
 - pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-methyl-3-(2-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide
- 2,3-Dichloro-N-[5-methyl-3-(6-methyl-2-pyridinylmethoxy)-2
 - pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-methyl-3-(3-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-methyl-3-(4-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-methyl-3-(3-methyl-2-pyridinylmethoxy)-2-
- 35 pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-methyl-3-(3-pyridazinylmethoxy)-2-pyrazinyl]benzenesulphonamide

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2,3-Dichloro-N-[3-(2-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide 2,3-Dichloro-N-[3-(3-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide $2,3\hbox{-}Dichloro\hbox{-}{\it N}\hbox{-}(3\hbox{-}methoxy\hbox{-}2\hbox{-}pyrazinyl) benzene sulphonamide$ N-[5-Bromo-3-(2-pyrazinylmethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide N-[5-Bromo-3-(1-methyl-6-oxo-1,6-dihydro-3-pyridinylmethoxy)-2-pyrazinyl]-2,3dichlorobenzenesulphonamide N-[5-Bromo-3-(3-pyridazinyllmethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide N-[5-Bromo-3-(3-pyridinylmethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide N-[5-Bromo-3-(5-pyrimidinylmethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide N-[5-Chloro-3-(3-pyridinylmethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide N-[5-Chloro-3-(5-pyrimidinylmethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide 2-Chloro-N-(6-chloro-3-methoxy-2-pyrazinyl)benezenesulphonamide 4-Chloro-N-(6-chloro-3-methoxy-2-pyrazinyl)benezenesulphonamide N-(6-Chloro-3-methoxy-2-pyrazinyl)-2,4-dichlorobenezenesulphonamide N-(6-Chloro-3-methoxy-2-pyrazinyl)-3,4-dichlorobenezenesulphonamide 3-Chloro-N-(3-methoxy-5-methyl-2-pyrazinyl)-2-methylbenezenesulphonamide 2-Chloro-N-(3-methoxy-5-methyl-2-pyrazinyl)benezenesulphonamide 3-Chloro-N-(3-methoxy-5-methyl-2-pyrazinyl)benezenesulphonamide 4-Chloro-N-(3-methoxy-5-methyl-2-pyrazinyl)benezenesulphonamide 2,4-Dichloro-N-(3-methoxy-5-methyl-2-pyrazinyl)benezenesulphonamide 3,4-Dichloro-N-(3-methoxy-5-methyl-2-pyrazinyl)benezenesulphonamide N-(5-Bromo-3-methoxy-2-pyrazinyl)-2-trifluoromethoxybenezenesulphonamide 3-Chloro-N-(5-chloro-3-methoxy-2-pyrazinyl)-2-methylbenzenesulphonamide 2-Chloro-N-(5-chloro-3-methoxy-2-pyrazinyl)benzenesulphonamide 3-Chloro-N-(5-chloro-3-methoxy-2-pyrazinyl)benzenesulphonamide 4-Chloro-N-(5-chloro-3-methoxy-2-pyrazinyl)benzenesulphonamide N-(5-Chloro-3-methoxy-2-pyrazinyl)-2,4-dichlorobenzenesulphonamide 2,3-Dichloro-N-[3-methoxy-5-(4-morpholinyl)-2-pyrazinyl]benzenesulphonamide 2,3-Dichloro-N-[3,5-dimethoxy-2-pyrazinyl]benzenesulphonamide 2,3-Dichloro-N-[3-methoxy-5-(1-pyrrolinyl)-2-pyrazinyl]benzenesulphonamide 3-Chloro-N-(5,6-dichloro-3-methoxy-2-pyrazinyl)-2-methylbenzenesulphonamide 2,3-Dichloro-N-(5,6-dichloro-3-methoxy-2-pyrazinyl)benzenesulphonamide 2-Chloro-N-(5,6-dichloro-3-methoxy-2-pyrazinyl)benzenesulphonamide 3-Chloro-N-(5,6-dichloro-3-methoxy-2-pyrazinyl)benzenesulphonamide 4-Chloro-N-(5,6-dichloro-3-methoxy-2-pyrazinyl)benzenesulphonamide

2,4-Dichloro-N-(5,6-dichloro-3-methoxy-2-pyrazinyl)benzenesulphonamide

- 3,4-Dichloro-N-(5,6-dichloro-3-methoxy-2-pyrazinyl)benzenesulphonamide
- 2,3-Dichloro-N-(3-methoxy-5,6-dimethyl-2-pyrazinyl)benzenesulphonamide
- 2.3-Dichloro-N-(6-chloro-3,5-dimethoxy-2-pyrazinyl)benzenesulphonamide
- 2,3-Dichloro-N-[6-chloro-3-methoxy-5-(4-morpholinyl)-2-
- 5 pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-*N*-[6-chloro-5-(2-hydroxyethylamino)-3-methoxy-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[6-chloro-5-dimethylamino-3-methoxy-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[6-chloro-3-methoxy-5-(2-methoxyethoxy)-2-
- 10 pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[6-chloro-5-hydroxy-3-methoxy-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[6-methoxy-5-([2,2']bipyrazinylyl)]benzenesulphonamide
 - 4-[5-(2,3-Dichlorobenzenesulphonylamino)-6-methoxy-2-pyrazinyloxy]benzoic acid
 - 2,3-Dichloro-N-(3,5-dichloro-2-pyrazinyl)benzenesulphonamide
- 2,3-Dichloro-N-{6-chloro-3-methoxy-5-([2-methoxyethyl)amino]-2-

pyrazinyl}benzenesulphonamide

- $\textit{N-} \{2\text{-}[3\text{-}Chloro-5\text{-}(2,3\text{-}dichlorobenzene sulphonylamino})\text{-}6\text{-}methoxy-2\text{-}(2,3\text{-}dichlorobenzene sulphonylamino})$
- pyrazinylamino]ethyl}acetamide
- 2,3-Dichloro-N-[5-(4-hydroxymethyl-1-piperidinyl)-3-methoxy-2-
- 20 pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-cyano-3-(3-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-(6-chloro-3-methoxy-5-methylamino-2-pyrazinyl)benzenesulphonamide
 - 2,3-Dichloro-N-(3-methoxy-5-methylsulphanyl-2-pyrazinyl)benzenesulphonamide
 - 2,3-Dichloro-N-[5-(2,4-difluorophenyl)-3-methoxy-2-pyrazinyl]benzenesulphonamide
- 25 [5-(2,3-Dichlorobenzenesulphonylamino)-6-methoxy-2-pyrazinylsulphanyl]acetic acid methyl ester
 - [5-(2,3-Dichlorobenzenesulphonylamino)-6-methoxy-2-pyrazinylsulphanyl]acetic acid
 - $2, 3-Dichloro-{\it N-[5-(2-chlorobenzyl sulphanyl)-3-methoxy-2-density of the control of the con$
 - pyrazinyl]benzenesulphonamide
- 2,3-Dichloro-*N*-[6-chloro-5-(3-hydroxy-1-azetidinyl)-3-methoxy-2
 - pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-methyl-3-(1-oxy-3-pyrazinylmethoxy)-2-
 - pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-chloro-3-(4-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide
- 2,3-Dichloro-N-[5-chloro-3-(1-oxy-4-pyridinylmethoxy)-2
 - pyrazinyl]benzenesulphonamide

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- 2,3-Dichloro-N-[5-chloro-3-(2-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide
- 2,3-Dichloro-N-[5-chloro-3-(2-methylsulphanylethoxy)-2-pyrazinyl]benzenesulphonamide
- N-(3-Butoxy-5-chloro-2-pyrazinyl)-2,3-dichlorobenzenesulphonamide
- 2,3-Dichloro-N-[5-chloro-3-(2-methyl-3-pyridinylmethoxy)-2-
- pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-chloro-3-(6-methyl-2-pyridinylmethoxy)-2pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-chloro-3-(1-oxy-2-pyridinylmethoxy)-2-
 - pyrazinyl]benzenesulphonamide
- 3-Chloro-N-[5-chloro-3-(3-pyridinylmethoxy)-2-pyrazinyl]-2-methylbenzenesulphonamide 10
 - 3-Chloro-N-[5-chloro-3-(3-pyridinylmethoxy)-2-pyrazinyl]-2-fluorobenzenesulphonamide
 - 2,3-Dichloro-N-[5-chloro-3-(4-methoxyphenylmethoxy)-2-
 - pyrazinyl]benzenesulphonamide
 - N-[5-Bromo-6-chloro-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
- 2,3-Dichloro-N-[6-chloro-3-(3-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide 15
 - 2,3-Dichloro-N-[6-chloro-3-(2-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide
 - N-[5-(2-Aminoethylsulphanyl)-3-(2-pyridinylmethoxy)-2-pyrazinyl]-2,3dichlorobenzenesulphonamide
 - 2,3-Dichloro-N-[5-chloro-3-(6-methoxy-3-pyridinylmethoxy)-2-
- pyrazinyl]benzenesulphonamide 20
 - N-[3-(3-Bromophenylmethoxy)-5-chloro-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
 - 3-[6-Chloro-3-(2,3-dichlorobenzenesulphonylamino)-2-pyrazinyloxymethyl]benzoic acid methyl ester
 - 3-[6-Chloro-3-(2,3-dichlorobenzenesulphonylamino)-2-pyrazinyloxymethyl]benzoic acid
- 2,3-Dichloro-N-[5-chloro-3-(3-hydroxymethylphenylmethoxy)-2-25
 - pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-chloro-3-(3-methylaminomethylphenylmethoxy)-2-
 - pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-chloro-3-{3-([2-hydroxyethylamino]methyl)phenylmethoxy}-2-
- pyrazinyl]benzenesulphonamide 30
 - 2,3-Dichloro-N-[5-chloro-3-(4-hydroxymethylphenylmethoxy)-2-
 - pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-chloro-3-{4-([2-hydroxyethylamino]methyl)phenylmethoxy}-2-
 - pyrazinyl]benzenesulphonamide
- 2,3-Dichloro-N-[3-(4-hydroxymethylphenylmethoxy)-2-pyrazinyl]benzenesulphonamide 35

- 2,3-Dichloro-*N*-[5-chloro-3-(2-hydroxymethylphenylmethoxy)-2-pyrazinyl]benzenesulphonamide
- 5-(2,3-Dichlorobenzenesuphonylamino)-6-methoxypyrazine-2-carboxylic acid, methyl ester
- 2,3-Dichloro-*N*-[5-(1-hydroxy-1-methylethyl)-3-methoxy-2-pyrazinyl]benzenesulphonamide *N*-[5-(2-Aminoethoxy)-3-methoxy-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
 - N-{5-[(2-Aminoethyl)thio]-6-chloro-3-methoxy-2-pyrazinyl}-2,3-dichlorobenzenesulfonamide
- 3-[(5-{[(2,3-Dichlorophenyl)sulphonyl]amino}-6-methoxy-2-pyrazinyl)thio]propanoic acid, methyl ester
 - 2,3-Dichloro-*N*-[5-bromo-3-methoxy-6-methyl-2-pyrazinyl)benzenesulphonamide 5-(2,3-Dichlorobenzenesulphonylamino)-6-methoxy-3-methylpyrazine-2-carboxylic aicd, methyl ester
- 2,3-Dichloro-*N*-[5-(hydroxymethyl)-3-methoxy-6-methyl-2-pyrazinyl)benzenesulphonamide
 - $2, 3- Dichloro-{\it N-[5,6-dichloro-3-(3-pyridinylmethoxy)-2-pyrazinyl]} benzene sulphonamide$
 - 3-Chloro-N-(5-chloro-3-methoxy-2-pyrazinyl)-2-fluorobenzenesulphonamide
 - $3-Chloro-2-fluoro-{\it N-}[3-(3-pyridinylmethoxy)-2-pyrazinyl] benzenesulphonamide$
- 3-{[(2,3-Dichlorophenyl)sulphonyl]amino}pyrazine-2-carboxylic acid, methyl ester N-(5-Bromo-6-chloro-3-methoxy-2-pyrazinyl)-2,3-dichlorobenzenesulphonamide 3-Chloro-5-{[(2,3-dichlorophenyl)sulphonyl]amino}-6-methoxypyrazine-2-carboxylic acid, methyl ester
 - 2,3-Dichloro-N-[6-chloro-5-(hydroxymethyl)-3-methoxypyrazin-2-
- 25 yl]benzenesulphonamide

- 2,3-Dichloro-N-{3-[(6-methoxy-3-pyridinyl)methoxy]-2-pyrazinyl}benzenesulphonamide
- 2,3-Dichloro-N-[6-chloro-3-methoxy-5-(methoxymethyl)-2-
- pyrazinyl]benzenesulphonamide
- 2-Chloro-N-(5-chloro-3-methoxy-2-pyrazinyl)-3-fluorobenzenesulphonamide
- 30 2-Chloro-3-fluoro-N-(3-methoxy-2-pyrazinyl)benzenesulphonamide
 - 2-Chloro-3-methoxy-N-(3-methoxy-2-pyrazinyl)benzenesulphonamide
 - N-[5-Bromo-3-[(2S)-2-pyrrolidinylmethoxy]-2-pyrazinyl]-2,3-
 - dichlorobenzenesulphonamide
 - 5-(2,3-Dichlorobenzenesulphonylamino)-6-(3-pyridinylmethoxy)pyrazine-2-carboxylic acid, methyl ester

- 5-{[(2,3-Dichlorophenyl)sulphonyl]amino}-6-(3-pyridinylmethoxy)-2-pyrazinecarboxamide
- 2,3-Dichloro-*N*-[5-(4-pyridinyl)-3-(3-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide
- 5 2,3-Dichloro-N-[5-(hydroxymethyl)-3-(3-pyridinylmethoxy)-2pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-*N*-[5-(hydroxymethyl)-3-methoxy)-2-pyrazinyl]benzenesulphonamide *N*-(5-Allyloxy-3-methoxy-2-pyrazinyl)-2,3-dichlorobenzenesulphonamide
 - 2,3-Dichloro-N-[5-(3-hydroxy-1-propynyl)-3-methoxy-2-pyrazinyl]benzenesulphonamide
- N-{3-[(5-Bromo-3-pyridinyl)methoxy]-5-chloro-2-pyrazinyl}-2,3-dichlorobenzenesulphonamide
 - $2,3-Dichloro-\textit{N-}[5-chloro-3-\{[6-(hydroxymethyl)-2-pyridinyl]methoxy}-2-pyrazinyl] benzenesulphonamide$
 - 2,3-Dichloro-N-{5-chloro-3-[(2-methyl-4-oxazolyl)methoxy]-2-
- 15 pyrazinyl}benzenesulphonamide
 - $2,3-Dichloro-\textit{N-}\{3-[(2-methyl-4-oxazolyl)methoxy]-2-pyrazinyl\} benzenesulphonamide and the sum of the property of the prop$
 - N-[5-Bromo-3-(phenylmethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
 - N-[5-Bromo-3-(2-cyclopropylethoxy)pyrazinyl]-2,3-dichlorobenzenesulphonamide
 - N-[5-Bromo-3-(3-thienylmethoxy)pyrazinyl]-2,3-dichlorobenzenesulphonamide
- 20 N-{5-Bromo-3-[(2-methyl-3-furanyl)methoxy]-2-pyrazinyl}-2,3-dichlorobenzenesulphonamide
 - $\textit{N-} \{\text{5-Bromo-3-[(3-furanyl)methoxy]-2-pyrazinyl}\} 2, 3-dichlorobenzene sulphonamide and the substitution of the substi$
 - *N*-{5-Bromo-3-[(4-fluorophenyl)methoxy]-2-pyrazinyl}-2,3-dichlorobenzenesulphonamide
- 25 N-{5-Bromo-3-[(3-fluorophenyl)methoxy]-2-pyrazinyl}-2,3-dichlorobenzenesulphonamide
 - $\textit{N-} \{5\text{-Bromo-3-[3-(2-pyridinyl)propoxy]-2-pyrazinyl} \} 2, 3\text{-dichlorobenzene} \\ \text{ulphonamide} \\ \text{otherwise} \\ \text{oth$
 - N-[5-Bromo-3-(pentyloxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
 - N-[5-Bromo-3-(propyloxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
- N-[5-Bromo-3-(2-methoxyethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
 - N-[5-Bromo-3-(2-ethoxyethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
 - $\textit{N-} [\text{5-Bromo-3-} (\text{2-fluoroethoxy}) \text{2-pyrazinyl}] 2, \\ \text{3-dichlorobenzene sulphonamide}$
 - N-{5-Bromo-3-[2-(1*H*-imidazol-1-yl)ethoxy]-2-pyrazinyl}-2,3-
 - dichlorobenzenesulphonamide
- N-{5-Bromo-3-[3-(3-pyridinyl)propoxy]-2-pyrazinyl}-2,3-dichlorobenzenesulphonamide N-[5-Bromo-3-[2-(methylamino)ethoxy]-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide

- *N*-{5-Bromo-3-[3-(4-hydroxyphenyl)propoxy]-2-pyrazinyl}-2,3-dichlorobenzenesulphonamide
- N-[5-Bromo-3-(2-phenoxyethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
- N-[5-Bromo-3-(cyclopropylmethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
- N-[5-Bromo-3-(3-phenoxypropoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
 - 2,3-Dichloro-N-(5-ethoxy-3-methoxy-2-pyrazinyl)benzenesulphonamide
 - 2,3-Dichloro-N-[3-methoxy-5-([1,2,4]-1-triazolyl)-2-pyrazinyl]benzenesulphonamide
 - 2-[5-(2,3-Dichlorobenzenesulphonylamino)-6-methoxy-2-pyrazinylsulphanyl]-*N*-methylacetamide
- 2-[5-(2,3-Dichlorobenzenesulphonylamino)-6-methoxy-2-pyrazinylsulphanyl]acetamide 2,3-Dichloro-*N*-[5-(4-fluorobenzylsulphanyl)-3-methoxy-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-cyanomethylsulphanyl-3-methoxy-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[3-methoxy-5-([1,2,4]-3-oxadiazolylmethylsulphanyl)-2-
- 15 pyrazinyl]benzenesulphonamide
 - N- [5-(2-Aminoethyl sulphanyl)-3-methoxy-2-pyrazinyl]-2, 3-dichlor obenzene sulphonamide and the sulphanyl sulp
 - 2,3-Dichloro-*N*-[3-methoxy-5-(5-methyl-3-isoxazolylmethoxy))-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[5-(5-dimethylaminomethyl-2-furanylmethoxy)-3-methoxy-2-
- 20 pyrazinyl]benzenesulphonamide
 - N-[5-Bromo-3-(5-dimethylaminomethyl-2-furanylmethoxy)-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide
 - 2,3-Dichloro-*N*-[5-(2-hydroxyethylsulphanyl)-3-methoxy-2-pyrazinyl]benzenesulphonamide
- 2,3-Dichloro-*N*-{5-[2-(ethylureido)ethylsulphanyl]-3-methoxy-2-pyrazinyl}benzenesulphonamide
 - 2,3-Dichloro-*N*-[3-(5-dimethylaminomethyl-2-furanylmethoxy)-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[6-chloro-3-(5-dimethylaminomethyl-2-furanylmethoxy)-2-
- 30 pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-*N*-[6-chloro-3-(5-methylaminomethyl-2-furanylmethoxy)-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-*N*-[5-chloro-3-(5-dimethylaminomethyl-2-furanylmethoxy)-2-pyrazinyl]benzenesulphonamide
- 2,3-Dichloro-*N*-[3-(5-methylaminomethyl-2-furanylmethoxy)-2-pyrazinyl]benzenesulphonamide

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N-(5-Bromo-3-methoxypyrazinyl)-2-cyanobenzenesulphonamide

- N-(5-Bromo-3-methoxypyrazinyl)-2,3-dichloro-4-fluorobenzenesulphonamide
- 2,3-Dichloro-N-[3-methoxy-5-(4-morpholinylmethyl)-2-pyrazinyl]benzenesulphonamide
- N-(3-Allyloxy-5-chloro-2-pyrazinyl)-2,3-dichlorobenzenesulphonamide
- 2,3-Dichloro-N-[5-chloro-3-(2-propynyloxy)-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-[3-(2-propynyloxy)-2-pyrazinyl)benzenesulphonamide
 - 2,3-Dichloro-N-(5-cyano-3-methoxy-2-pyrazinyl)benzenesulphonamide
 - 2,3-Dichloro-N-{3-methoxy-5-[(2S)-pyrrolidin-2-ylmethoxy]-2-
 - pyrazinyl}benzenesulfonamide hydrochloride
- 2,3-Dichloro-N-{6-chloro-3-methoxy-5-[(2R)-2-pyrrolidinylmethoxy]-2-10 pyrazinyl}benzenesulphonamide Hydrochloride
 - 2,3-Dichloro-N-[3-methoxy-5-(2-pyridinylmethoxy)-2-pyrazinyl]benzenesulphonamide Hydrochloride
 - 2,3-Dichloro-N-(3-methoxy-6-methyl-2-pyrazinyl)benzenesulphonamide
- 2,3-Dichloro-N-[3-methoxy-5-(1H-1,2,4-triazol-1-ylmethyl)-2-15 pyrazinyl]benzenesulphonamide
 - N-(3-(5-Aminomethyl-2-furanylmethoxy)-5-chloro-2-pyrazinyl)-2,3-dichlorobenzenesulphonamide
 - N-(3-(5-Aminomethyl-2-furanylmethoxy)-2-pyrazinyl)-2,3-dichlorobenzenesulphonamide
- 2,3-Dichloro-N-[3-methoxy-5-(2-propyn-1-yloxy)-2-pyrazinyl]benzenesulphonamide 20 {[5-(2,3-Dichlorophenylsulfonylamino)-6-methoxy-2-pyrazinyl]oxy}acetic acid, methyl
 - ester N-[5-(2,3-Dichlorophenylsulphonylamino)-6-methoxy-2-pyrazinyl]-2-hydroxyacetamide 6-(2,3-Dichlorophenylsulphonylamino)-5-methoxy-2-pyrazinecarboxylic acid, methyl
- ester 25
 - 2,3-Dichloro-N-[6-(hydroxymethyl)-3-methoxy-2-pyrazinyl]benzenesulphonamide
 - 2,3-Dichloro-N-(5-methanesulphonyl-3-methoxy-2-pyrazinyl)benzenesulphonamide
 - 2-[5-(2,3-Dichlorobenzenesulphonylamino)-6-methoxy-2-pyrazinyloxy]-N,N-diethylacetamide
- 2,3-Dichloro-N-{5-[2-(dimethylamino)ethylsulphanyl]-3-methoxy-2-30 pyrazinyl}benzenesulphonamide
 - 2,3-Dichloro-N-(5-difluoromethyl-3-methoxy-2-pyrazinyl)benzenesulphonamide
 - 2,3-Dichloro-4-fluoro-N-(3-methoxy-2-pyrazinyl)benzenesulphonamide
 - 2,3-Dichloro-N-{5-chloro-3-[1-(cyclopropyl)ethoxy]-2-pyrazinyl}benzenesulphonamide
- 2,3-Dichloro-N-[5-chloro-3-(5-formyl-2-furanylmethoxy)-2-35 pyrazinyl]benzenesulphonamide

2,3-Dichloro-*N*-[5-chloro-3-(5-cyclopropylaminomethyl-2-furanylmethoxy)-2-pyrazinyl]-benzenesulphonamide

N-[5,6-bis-(Hydroxymethyl)-3-methoxy-2-pyrazinyl]-2,3-dichlorobenzenesulphonamide N-[3-[(2-amino-4-oxazolyl)methoxy]-5-chloro-2-pyrazinyl]-2,3-

- dichlorobenzenesulphonamide
 and pharmaceutically acceptable salts and solvates thereof.
 - 7. A process for the preparation of compound (I) which comprises:
 - (a) reaction of a compound of formula (II):

(II)

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where R⁴, R⁵ and R⁶ are as defined in formula (I) or are protected derivatives thereof with a compound of formula (III):

20 (III)

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where R¹, R² and R³ are as defined in formula (I) or are protected derivatives thereof and LG is a leaving group, or

- (b) for compounds where R^4 is C_{1-6} alkoxy where the alkyl group may form a 3-6 membered saturated ring or may be substituted with 1-3 fluorine atoms or a cyano group; C_{3-6} alkenyloxy or C_{3-6} alkynyloxy where either may be optionally substituted with hydroxy or $NR^{14}R^{15}$;
- OC₁₋₆ alkyl-X-C₁₋₆ alkyl where the alkyl groups may form a 3-6 membered saturated ring; OC₁₋₆ alkylR¹¹, or OC₂₋₆ alkyl-X-R¹¹ where the alkyl group may form a 3-6 membered saturated ring and is optionally substituted with 1-3 groups selected from hydroxy, halogen, NR¹⁴R¹⁵, SR¹³, S(O)₂R¹³, S(O)R¹³; or

OC₁₋₆ alkylR¹⁶; treating a compound of the formula (VI), where LG is a leaving group:

$$R^{5}$$
 R^{6}
 N
 NH
 $O=S=O$
 R^{1}
 R^{2}
 R^{3}
 $(V1)$

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with a compound of formula (V) in the presence of a suitable base, or

(c) for compounds of structure (l), where R⁵ is an optionally substituted aryl or heteroaryl ring as defined above, reacting a compound of formula (XI) or (VII) where LG is a leaving group with an aryl or heteroaryl boronic acid in the presence of a palladium catalyst and a suitable base at elevated temperature:

- 20 and optionally thereafter process (a), (b) or (c)
 - · removing any protecting groups,
 - converting a compound of formula (I) to a further compound of formula (I)
 - forming a pharmaceutically acceptable salt.

- 8. A pharmaceutical composition comprising a compound of formula (I), or a pharmaceutically acceptable salt or solvate thereof, as claimed in claim 1 in association with a pharmaceutically acceptable adjuvant, diluent or carrier.
- 9. A process for the preparation of a pharmaceutical composition as claimed in claim 2 which comprises mixing a compound of formula (I), or a pharmaceutically acceptable salt or solvate thereof, as claimed in claim 1 with a pharmaceutically acceptable adjuvant, diluent or carrier.
- 10. A compound of formula (I), or a pharmaceutically acceptable salt or solvate thereof for use in therapy.
- 11. A method of treating a chemokine mediated disease wherein the chemokine binds to one or more chemokine receptors, which comprises administering to a patient a therapeutically effective amount of a compound of formula (IB), or a pharmaceutically acceptable salt or solvate thereof:

$$\begin{array}{c|c}
R^1 & O \\
R^2 & S = O
\end{array}$$

$$\begin{array}{c|c}
R^4 & N & R^6
\end{array}$$

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(IB)

in which:

 R^1 , R^2 and R^3 are independently hydrogen, halogen, cyano, CF_3 , or C_{1-6} alkyl;

25 R⁴ is halogen, CO₂R¹²,

C₁₋₆ alkoxy where the alkyl group may form a 3-6 membered saturated ring or may be substituted with 1-3 fluorine atoms or a cyano group;

 C_{3-6} alkenyloxy or C_{3-6} alkynyloxy where either may be optionally substituted with hydroxy or NR¹⁴R¹⁵;

OC₁₋₆ alkyl-X-C₁₋₆ alkyl where the alkyl groups may form a 3-6 membered saturated ring;

OC₁₋₆ alkylR¹¹, or OC₂₋₆ alkyl-X-R¹¹ where the alkyl group may form a 3-6 membered saturated ring and is optionally substituted with 1-3 groups selected from hydroxy, halogen, NR¹⁴R¹⁵, SR¹³, S(O)₂R¹³, S(O)R¹³;

OC₁₋₆ alkylR¹⁶;

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R⁵ and R⁶ are independently hydrogen, cyano, halogen, CO2R¹², CONR¹⁴R¹⁵;

C₁₋₆ alkyl optionally substituted by hydroxy, NR¹⁴R¹⁵, or 1-3 fluorines;

 C_{1-6} alkyl R^{11} or XCH(R^{11}) C_{1-6} alkyl or XCH(R^{16}) C_{1-6} alkyl where the alkyl group may be optionally substituted with 1-3 groups selected from hydroxy, and NR¹⁴R¹⁵;

NR¹⁴R¹⁵; N(R¹¹)R¹¹; X-(CH₂)qNR¹⁴R¹⁵; (CH₂)nNR¹⁴R¹⁵;

 C_{3-6} alkynyl or C_{3-6} alkenyl optionally branched and optionally substituted with 1-3 groups selected from hydroxy, cyano, halogen and =0;

R¹¹; X-R¹²; X-C₁₋₆alkylR¹⁶; X-R¹⁶; X-(CH₂)nCO₂R¹²; X-(CH₂)nCONR¹⁴R¹⁵; X-(CH₂)nR¹¹; X-(CH₂)nCN; X-(CH₂)qOR¹²; (CH₂)nOR¹²; (CH₂)n-X-R¹¹; X-(CH₂)qNHC(O)NHR¹²; X-(CH₂)qNHC(O)R¹²; X-(CH₂)qNHS(O)₂R¹²; X-(CH₂)qNHS(O)₂R¹¹; X-C₃₋₆alkenyl; X-C₃₋₆alkynyl;

n is 1,2, 3, 4 or 5;

q is 2, 3, 4, 5 or 6;

30 X is NR^{13} , O, S, S(O), S(O)₂;

R¹¹ is an aryl group or a 5-7 membered heteraromatic ring containing 1-4 heteroatoms selected from nitrogen, oxygen or sulphur each of which can be optionally substituted by 1-3 groups selected from halogen, C(O)NR¹⁴R¹⁵, C(O)OR¹², hydroxy, =O, =S, CN, NO₂ NR¹⁴R¹⁵, X(CH₂)qNR¹⁴R¹⁵, (CH₂)nNR¹⁴R¹⁵, (CH₂)nOH, SR¹³, S(O)R¹³, S(O)₂R¹³

 C_{1-6} alkyl-X- C_{1-6} alkyl, C_{1-6} alkyl or C_{1-6} alkoxy where the alkyl group may form a 3-6 membered ring or is optionally substituted with 1-3 groups selected from hydroxy, halogen, $NR^{14}R^{15}$, SR^{13} , $S(O)R^{13}$, $S(O)_2R^{13}$;

- R¹² and R¹³ are independently hydrogen or C₁₋₆ alkyl where the alkyl group may be substituted with 1-3 fluorine atoms or may form a saturated 3-6 membered ring;
 - R¹⁴ and R¹⁵ are independently hydrogen, C₁₋₆ alkyl, C₃₋₆ cycloalkyl or (CH₂)qOH,
- or R¹⁴ and R¹⁵ together with the nitrogen atom to which they are attached form a 4-8 membered saturated ring containing 1-3 heteroatoms selected from nitrogen, oxygen and sulphur and optionally substituted by C₁₋₆ alkyl, C₁₋₆ alkyl-OH, or hydroxy; and
 - R¹⁶ is a 4-8 membered saturated ring containing 1-3 heteroatoms selected from nitrogen, oxygen or sulphur and optionally substituted with 1-3 groups selected from hydroxy, cyano, halogen and =O,
 - 12. A method according to claim 11 in which the chemokine receptor belongs to the CCR chemokine receptor subfamily.
 - 13. A method according to claim 11 or 12 in which the chemokine receptor is the CCR4 receptor.
- 14 A method of treating an inflammatory disease in a patient suffering from, or at risk of, said disease, which comprises administering to the patient a therapeutically effective amount of a compound of formula (IB), or a pharmaceutically acceptable salt or solvate thereof, as defined in claim 11.
 - 15. A method according to claim 14, wherein the disease is asthma.

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